ABSTRACT

A hot-rolled wire rod:

the wire rod being a hot-rolled wire rod 5.0 mm or more in diameter, containing in mass

C: 0.6 to 1.0%,

Si: 0.1 to 1.5%,

Mn: 0.3 to 1.0%,

P: 0.02% or less, and

S: 0.02% or less;

not less than 90% of the wire rod in area percentage being composed of a pearlite structure; and

the mechanical properties of the wire rod 4 m in length satisfying the following expressions (1) to (4),

(1) TS*-30 ≤ Average value of tensile strength (TS_{AV} in MPa) ≤ TS*+30,

where, TS* = 400 × {[C]+([Mn]+[Si])/5}+670 and the elements in square brackets [ ] in the equality mean the contents of relevant elements in percentage,

(2) Standard deviation of tensile strength (TSσ) ≤ 30 MPa,

(3) Average value of reduction of area (RA_{AV}) > 35%,

(4) Standard deviation of reduction of area (RAσ) ≤ 4%.

A hot-rolled wire rod according to the present invention is incomparably excellent in wire drawability and brakes less frequently than a conventional wire rod even

when it is processed as hot-rolled with heat treatment such as patenting treatment omitted.